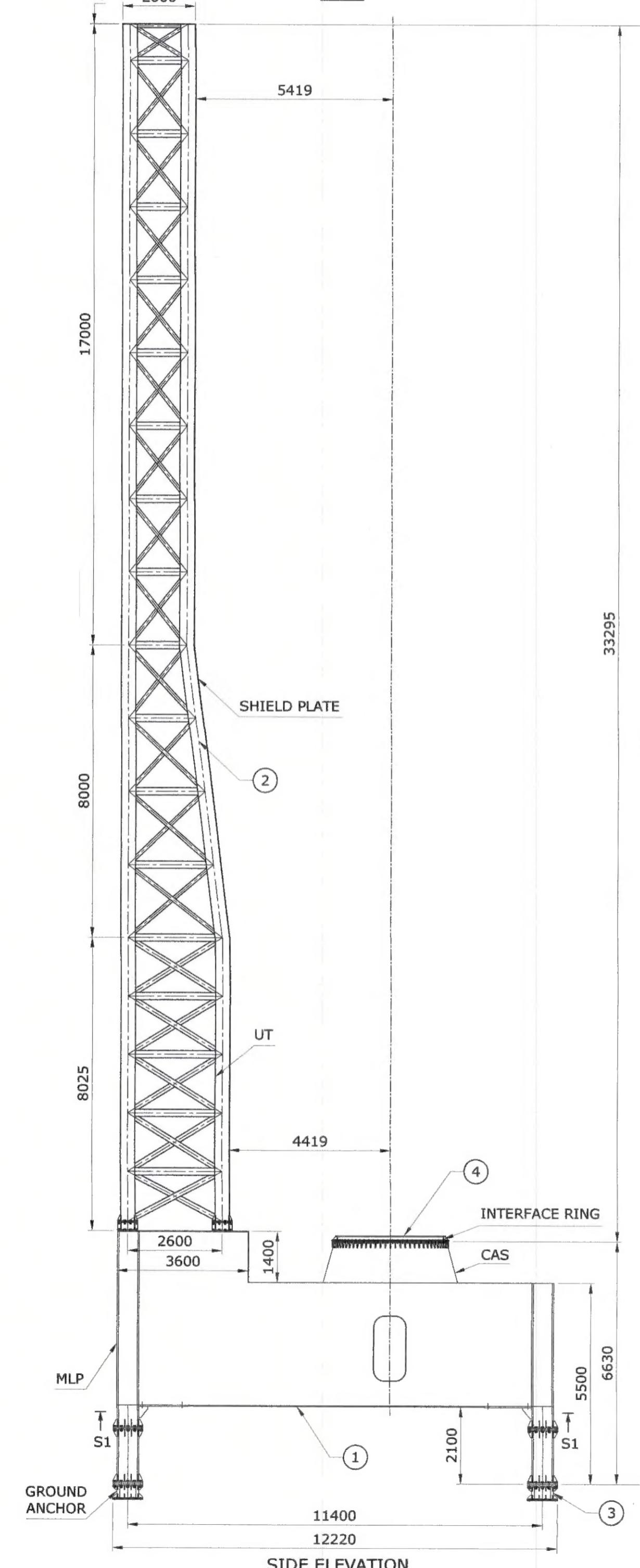
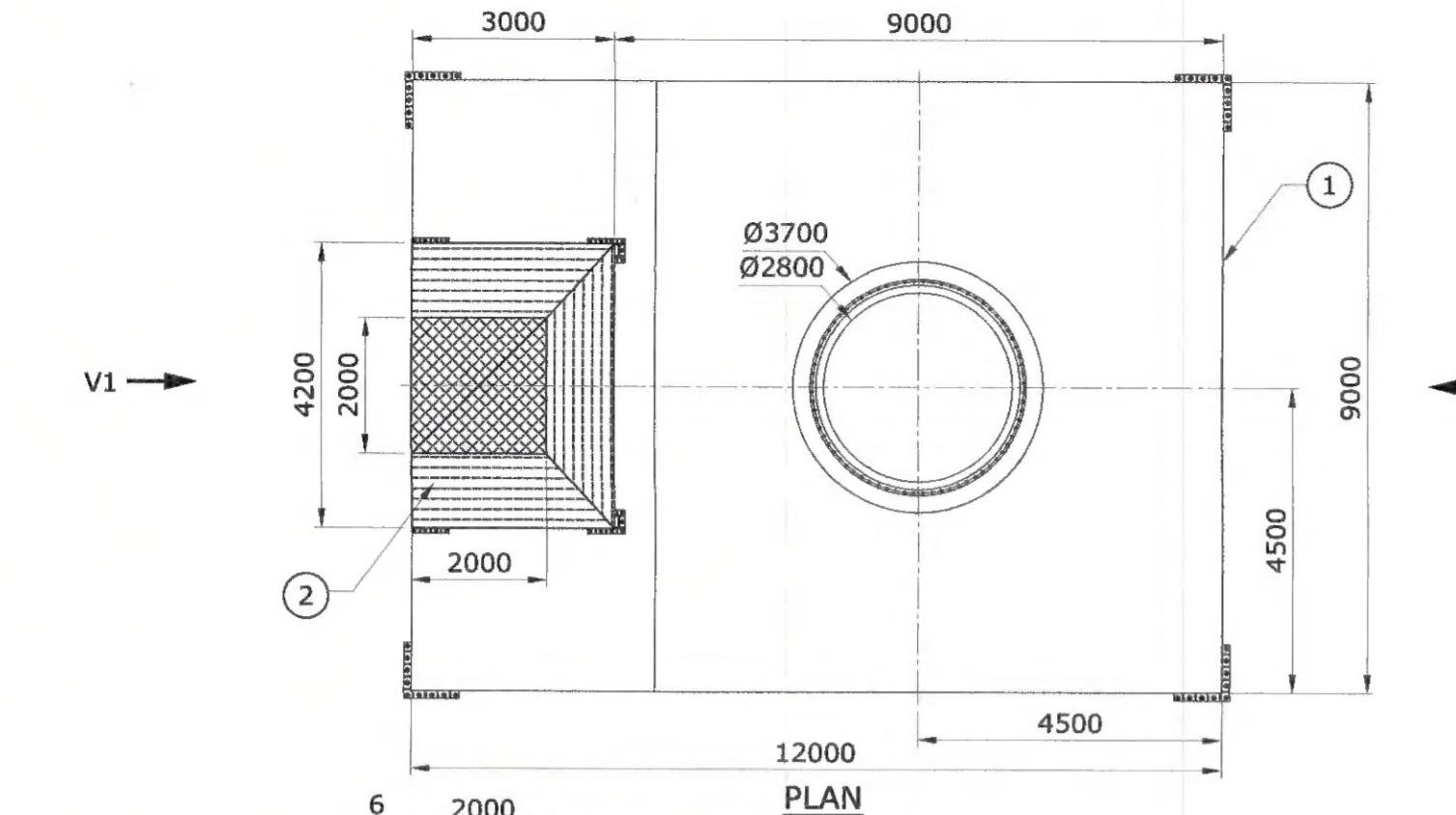


VIEW : V1

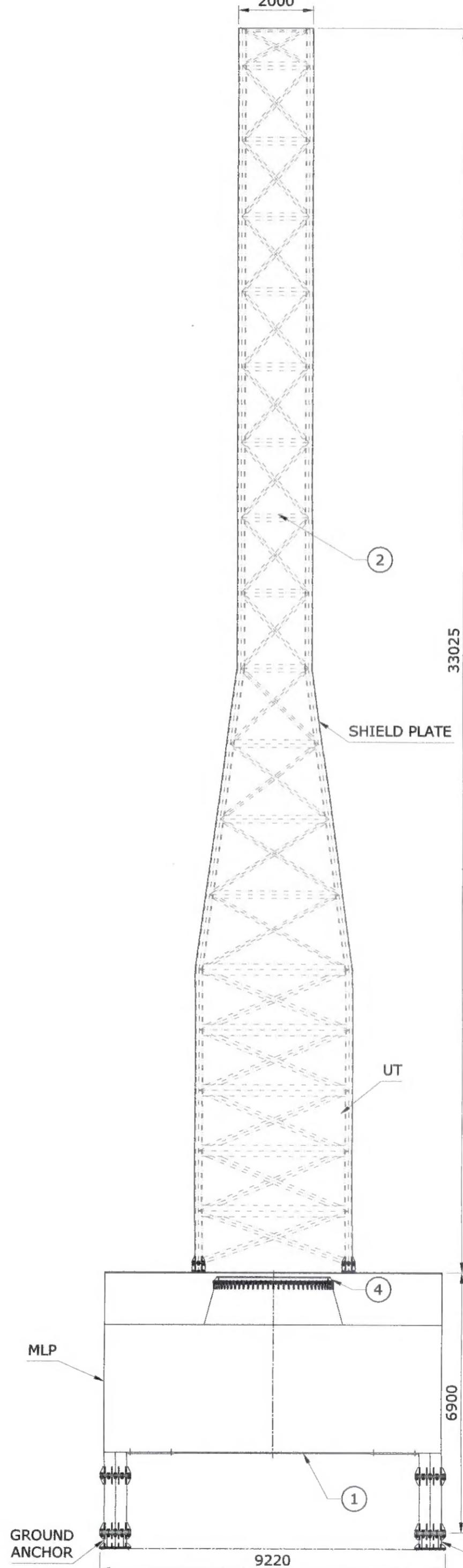


SIDE ELEVATION



V1 →

← V2



VIEW : V2

STATUS SIGN DATE

DISCUSSION / REVIEW
TENDER PURPOSE
FABRICATION

UNRESTRICTED RESTRICTED CONFIDENTIAL

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MENTIONED THEREIN. THIS IS NOT TO BE COPIED
OR USED FOR OTHER WORKS / PROJECTS UNLESS
EXPRESSLY PERMITTED BY SDSC-SHAR.

DO NOT SCALE THE DRAWING
ASK IF IN DOUBT
UNLESS OTHERWISE SHOWN
ALL DIMENSIONS ARE IN MILLIMETERS
REMOVE SHARP EDGES & BURRS
CHAMFER 1 M.M. X 45°
MACHINING FINISH IN MICRONS :-

∇ 8 - 25 $\nabla\nabla$ 1.6 - 8
 $\nabla\nabla\nabla$ 0.025 - 1.6 $\nabla\nabla\nabla\nabla$ < 0.025
LENGTH IN M.M. OF
SHORTEST SIDE OF
ANGLE UPTO & INCL.
DIA. UPTO & INCL. 6 ± 0.1
6 - 30 30 ± 0.2
30 - 120 120 ± 3
120 - 315 315 ± 0.5
1000 - 2000 2000 ± 1.2
2000 - 4000 4000 ± 2.0
30-120 ± 0°-20
4000 & ABOVE 4000 ± 3.0
120-400 ± 0°-10°

DEVIATION FOR NON TOLERANCED DIMENSIONS
(IS - 2102)

DESIGNED *[Signature]* DRAWN *[Signature]* APPROVED *[Signature]*
DES.CHD. DRAWN SREENU.P 09-10-23 APPROVED *[Signature]*
PROJ.CHKD DRAWN SREENU.P 09-10-23 APPROVED *[Signature]*

SCEND

SIGN. DATE

SHAR CENTRAL DESIGNS

GOVERNMENT OF INDIA
INDIAN SPACE RESEARCH ORGANISATION
SATISH DHAWAN SPACE CENTRE SHAR
SRIRAHIKOTA

PROJECTION

SHEET 1

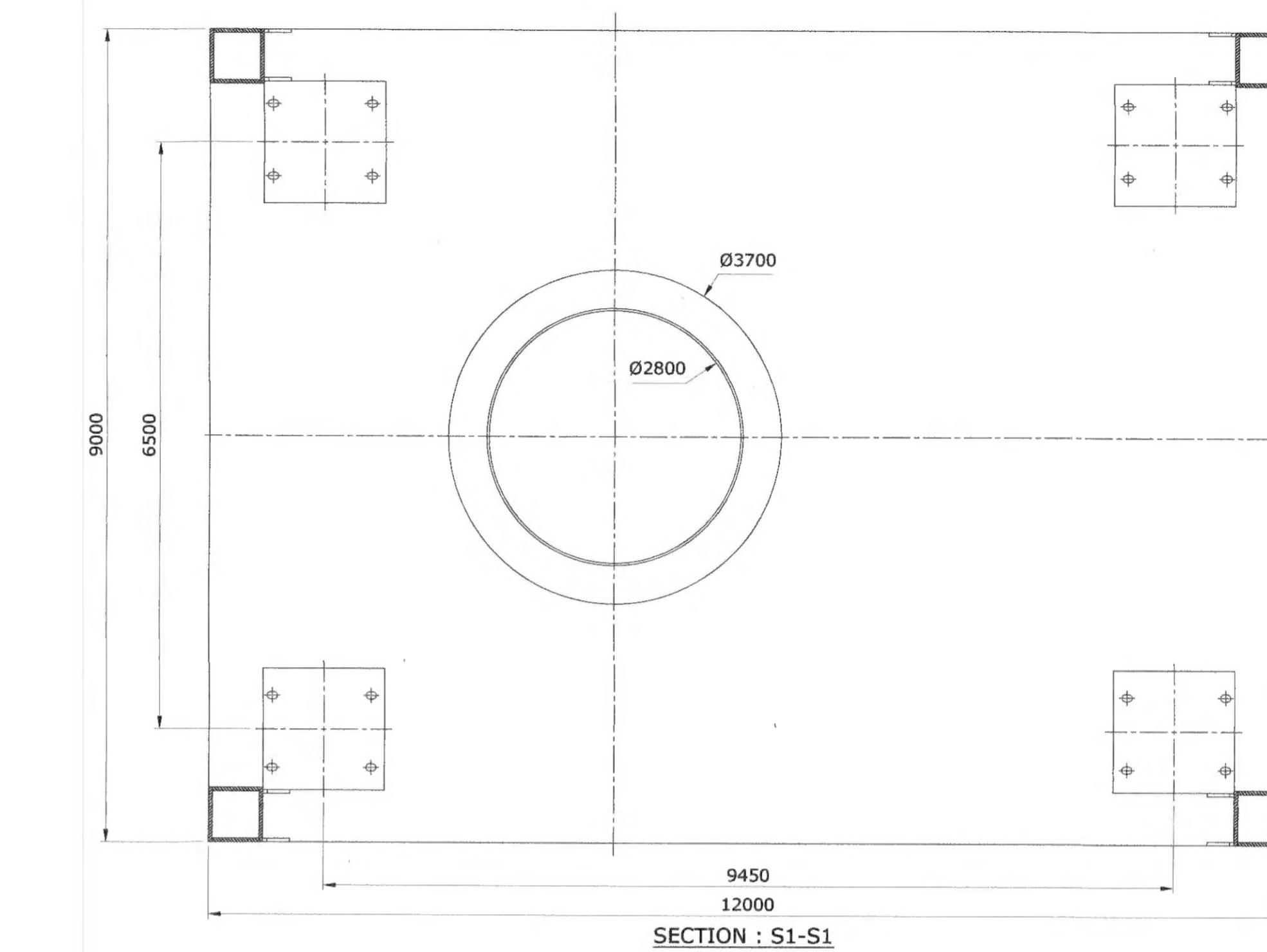
OF 14

TOTAL WEIGHT 299407 kg(Approx.)

4	INTERFACE RING	-	1	804	REFER SHEET NO. 14 OF 14
3	GROUND ANCHOR	-	4	4144	REFER SHEET NO. 13 OF 14
2	UMBILICAL TOWER (UT)	-	1	48787	REFER SHEET NO. 10 OF 14
1	MOBILE LAUNCH PEDESTAL(MLP)	-	1	245672	REFER SHEET NO. 2 OF 14
S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS

TITLE
GENERAL ASSEMBLY
OF MOBILE LAUNCH STRUCTURE (MLS)
(SLC PROJECT)

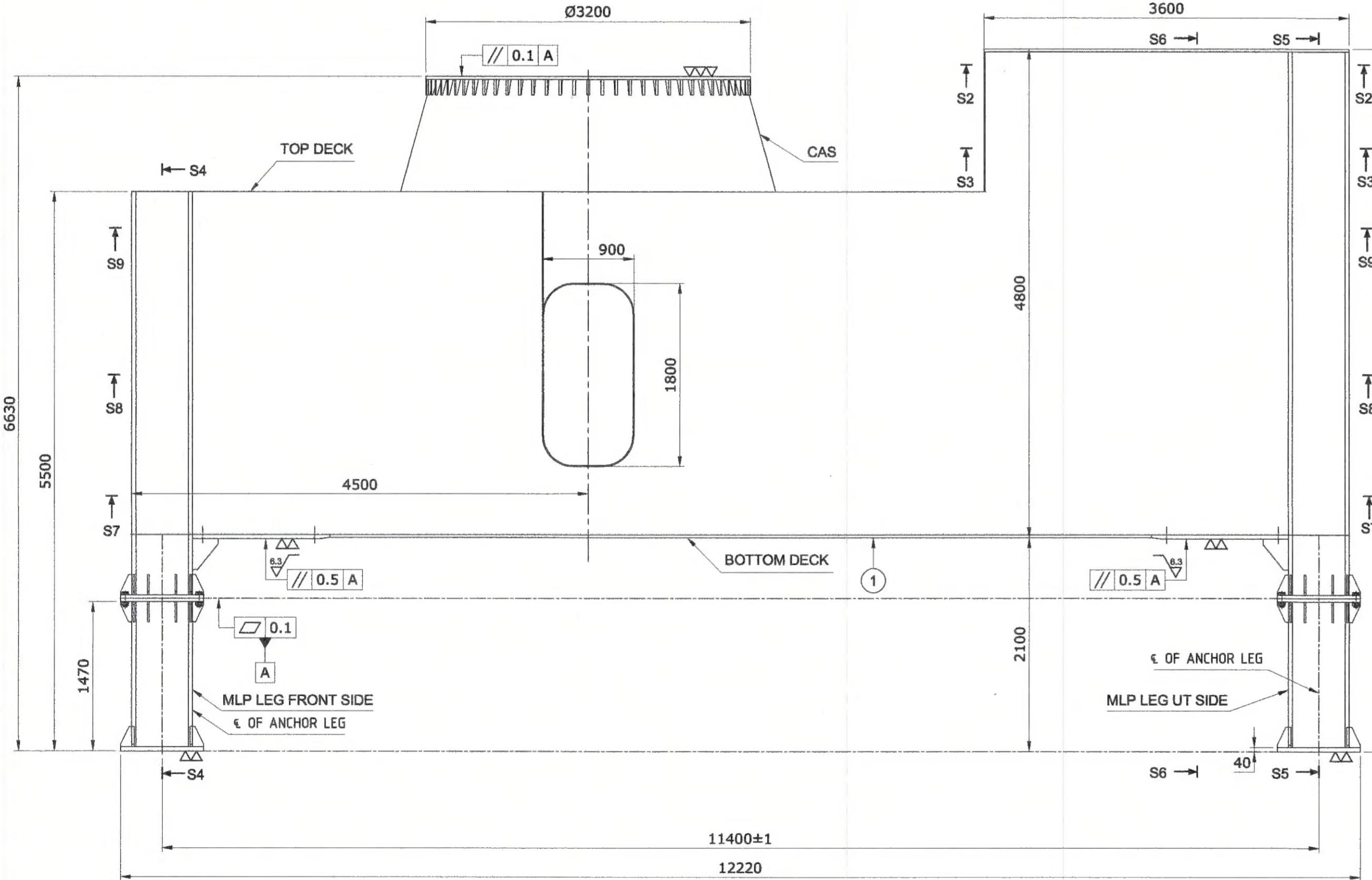
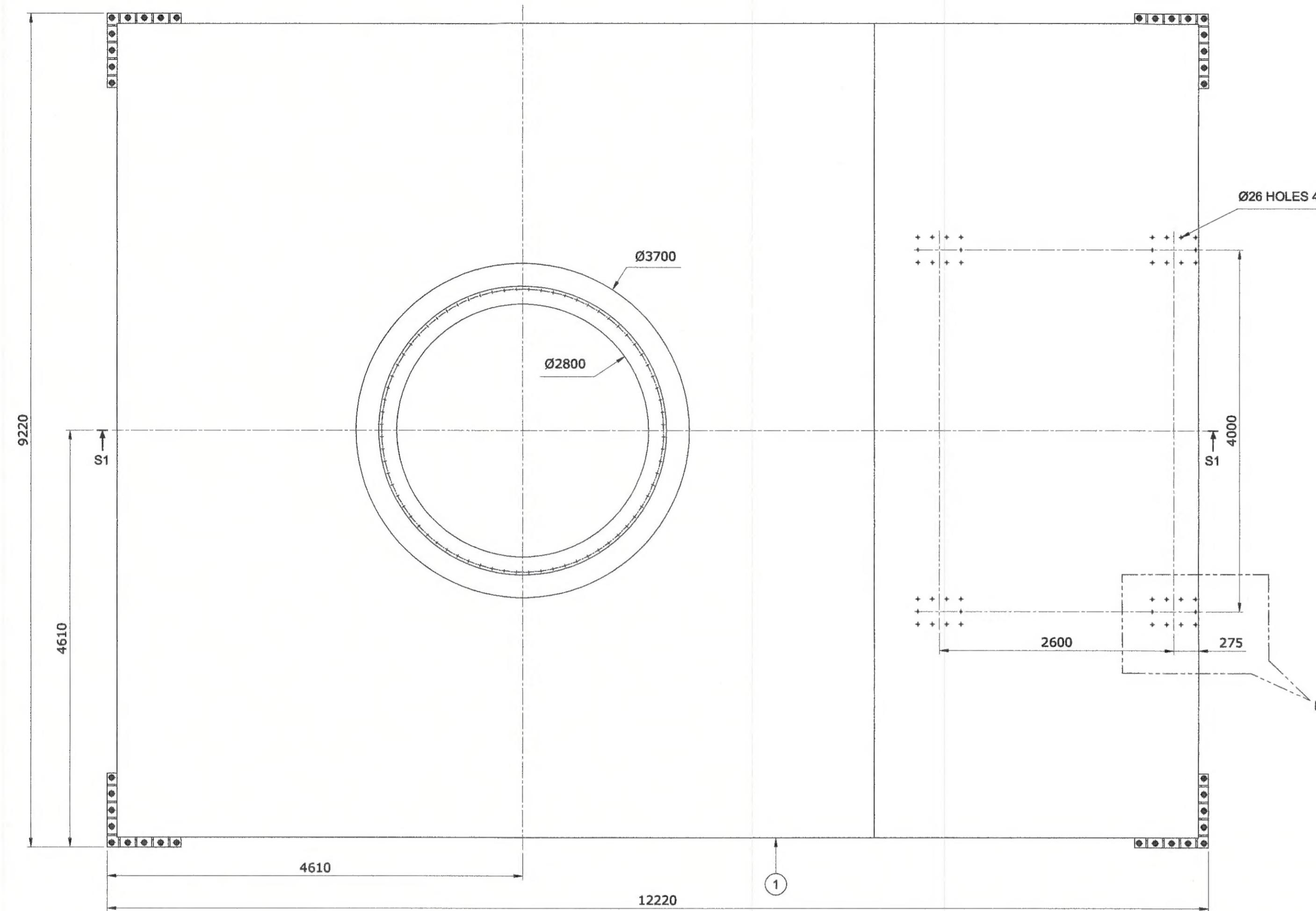
SCALE 1 : 25 DRG. NO. 10-STR-12-1-23/A1



SECTION : S1-S1

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. ALL PLATES ABOVE 20mm THICK SHALL BE UT TESTED.
3. ALL WELDS ARE OF 10mm SIZE FILLET UNLESS OTHERWISE SPECIFIED.
4. STRESS RELIEVING IS TO BE CARRIED OUT AFTER COMPLETION OF ALL WELDING & BEFORE MACHINING.
5. UNLESS OTHERWISE SPECIFIED, ALL WELDING SHALL BE SUBJECT TO THE FOLLOWING TESTS:
 - 5.1. 100% MT/PT FOR FILLET WELDS AFTER FINAL PASS.
 - 5.2. 100% PT FOR GROOVE WELDS AFTER ROOT PASS AND FINAL PASS.
 - 5.3. 100% UT/ RT FOR GROOVE WELDS AFTER FINAL PASS
6. ALL DIMENSIONS SPECIFIED IN THIS DRAWING ARE FINAL DIMENSIONS WHICH ARE TO BE ACHIEVED AFTER FINISH MACHINING.
7. ALL MATING SURFACES, BORES AND THREADED HOLES SHALL BE GREASED. THE REMAINING EXPOSED SURFACES SHALL BE PAINTED AS PER THE INSTRUCTIONS STATED IN SPECIFICATION.
8. BILL OF MATERIAL SHOWS THE FINISHED SIZES OF PLATES, BARS AND OTHER SECTIONS. FOR MATERIAL PROCUREMENT, NECESSARY FABRICATION & MACHINING ALLOWANCE SHALL BE ADDED AS PER EXISTING SHOP PRACTICES.
9. OVERALL SIZES OF ITEMS ARE INDICATED IN THE BILL OF MATERIAL. BASED ON AVAILABILITY OF PLATE SIZES AND REQUIRED SHAPE, THE ITEMS MAY BE FABRICATED FROM INDIVIDUAL PLATES WELDED TOGETHER. HOWEVER FULL PENETRATION BUTT WELDS WITH 100% RADIOPGRAPHY IS TO BE CARRIED OUT FOR ALL THESE JOINTS. THE VENDOR SHALL OBTAIN PRIOR APPROVAL FROM THE PURCHASER FOR THE CONFIGURATION AND LOCATION OF ALL SUCH ADDITIONAL BUTT WELDED JOINTS THAT ARE PROPOSED TO BE CARRIED OUT BY HIM.
10. USE TEMPLATES FOR MARKING AND DRILLING HOLES. THE SAME TEMPLATE IS TO BE USED FOR DRILLING HOLES IN ALL MATING COMPONENTS.
11. LIFTING LUGS ARE TO BE PROVIDED BY THE VENDOR FOR HANDLING THE MODULES AT SHOP AND AT SITE. THE LIFTING LUGS SHALL BE REMOVED FROM THE MODULES AFTER COMPLETION OF THE WELDING OF THE MODULES AT SITE. THE LUGS SHALL BE REMOVED WITHOUT DAMAGING THE PARENT PLATES AND ANY PROJECTION OR ROUGH SURFACE FOUND IS TO BE GROUND SMOOTH AND PAINTED.



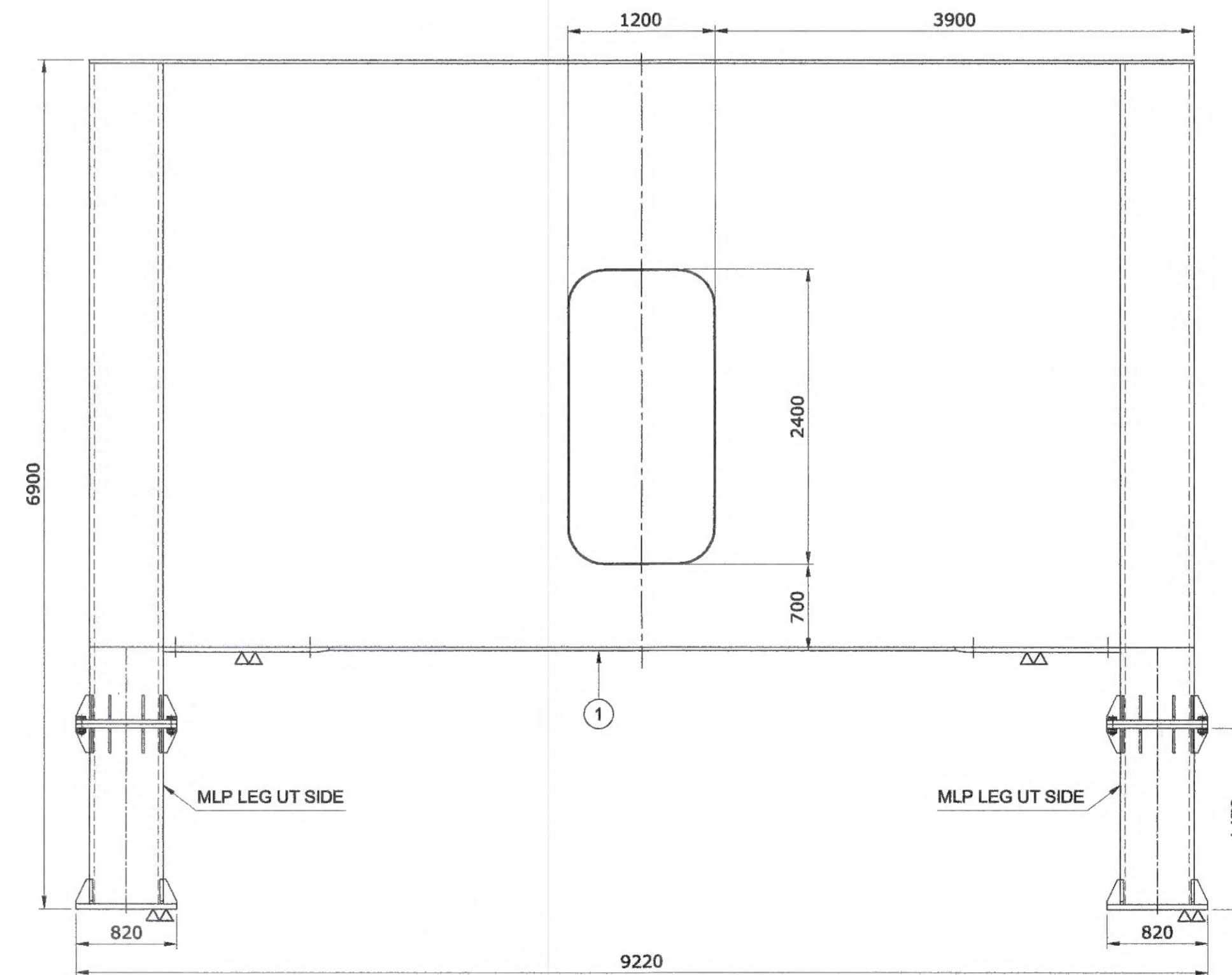
ELEVATION

NOTES:

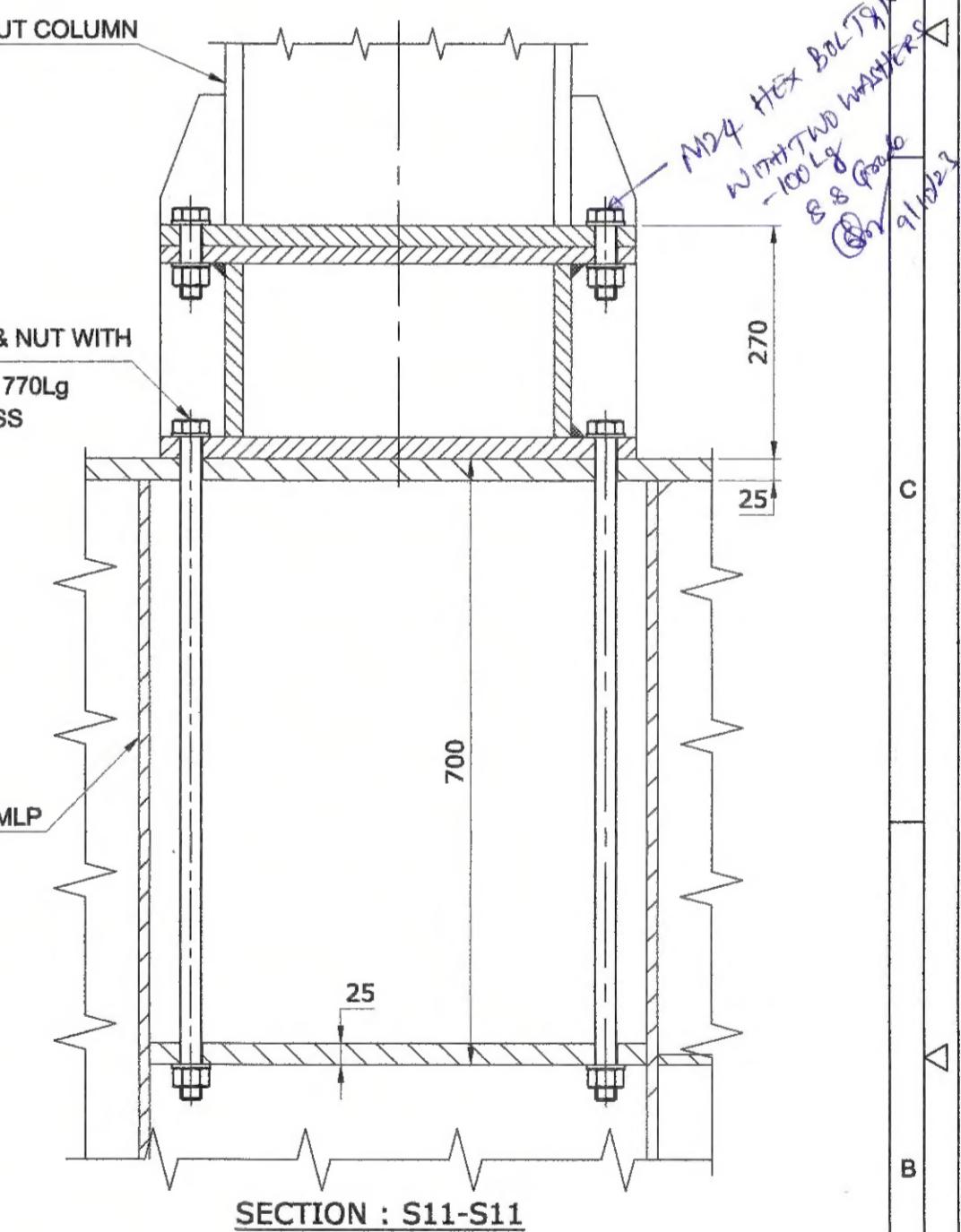
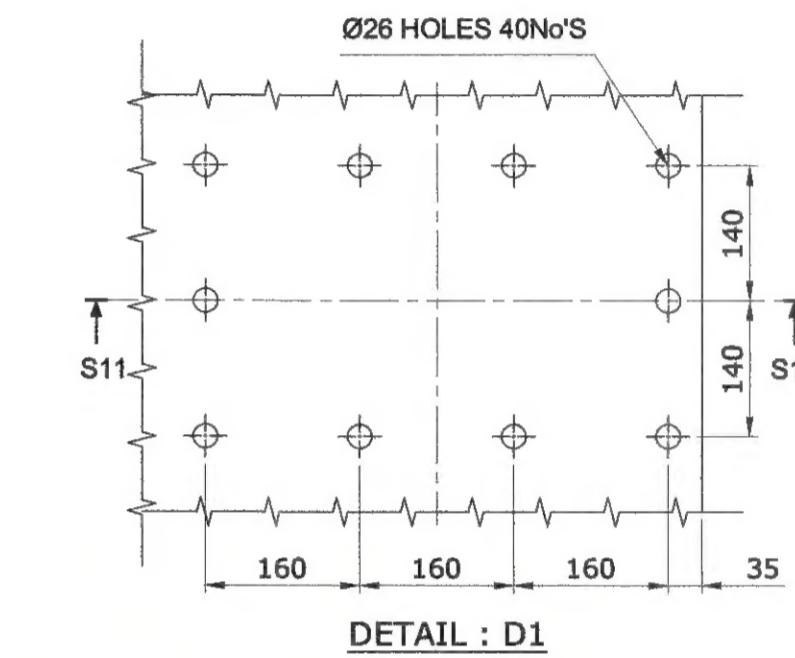
- ALL DIMENSIONS ARE IN mm.
 - ALL WELDINGS SHALL BE CARRIED OUT AS PER IS:9595.
 - STRESS RELIEVING IS TO BE CARRIED OUT AFTER COMPLETION OF ALL WELDING & BEFORE MACHINING.
 - UNLESS OTHERWISE SPECIFIED, ALL WELDING SHALL BE SUBJECT TO THE FOLLOWING TESTS:
 - 100% MT/PT FOR FILLET WELDS AFTER FINAL PASS.
 - 100% UT/ RT FOR GROOVE WELDS AFTER ROOT PASS AND FINAL PASS.
 - 100% UT/ RT FOR GROOVE WELDS AFTER FINAL PASS
 - ALL DIMENSIONS SPECIFIED IN THIS DRAWING ARE FINAL DIMENSIONS WHICH ARE TO BE ACHIEVED AFTER FINISH MACHINING.
 - BILL OF MATERIAL SHOWS THE FINISHED SIZES OF PLATES, BARS AND OTHER SECTIONS. FOR MATERIAL PROCUREMENT, NECESSARY FABRICATION & MACHINING ALLOWANCE SHALL BE ADDED AS PER EXISTING SHOP PRACTICES.
 - OVERALL SIZES OF ITEMS ARE INDICATED IN THE BILL OF MATERIAL. BASED ON AVAILABILITY OF PLATE SIZES AND REQUIRED SHAPE, THE ITEMS MAY BE FABRICATED FROM INDIVIDUAL PLATES WELDED TOGETHER. HOWEVER FULL PENETRATION BUTT WELDS WITH 100% RADIOPHOTOGRAPHY IS TO BE CARRIED OUT FOR ALL THESE JOINTS. THE VENDOR SHALL OBTAIN PRIOR APPROVAL FROM THE PURCHASER FOR THE CONFIGURATION AND LOCATION OF ALL SUCH ADDITIONAL BUTT WELDED JOINTS THAT ARE PROPOSED TO BE CARRIED OUT BY HIM.
 - USE TEMPLATES FOR MARKING AND DRILLING HOLES. THE SAME TEMPLATE IS TO BE USED FOR DRILLING HOLES IN ALL MATING COMPONENTS.
 - STRUCTURE SHALL BE PAINTED AS PER THE PURCHASE ORDER.
- 10. DETAILED FABRICATION DRAWINGS SHALL BE PREPARED BY THE FABRICATOR AND APPROVED BY THE DEPARTMENT BEFORE STARTING FABRICATION.**
- REMOVABLE HAND RAILS(HEIGHT:1160, PIPE 32 NB, SCH40) SHALL BE PROVIDED ON THE CIRCUMFERENCE(4 X 9m) OF TOP OF THE MLP.
 - APPROACH LADDERS(FOUR NUMBERS) SHALL BE PROVIDED TO REACH TO TOP OF MLP.
 - FOR SECTION DETAILS REFER SHEET NO : 3 OF 12 TO 7 OF 12.
 - CHECK THE STATUS OF THE DRAWING BEFORE STARTING FABRICATION.

- REMOVABLE HAND RAILS(HEIGHT:1160, PIPE 32 NB, SCH40) SHALL BE PROVIDED ON THE CIRCUMFERENCE(4 X 9m) OF TOP OF THE MLP.
- APPROACH LADDERS(FOUR NUMBERS) SHALL BE PROVIDED TO REACH TO TOP OF MLP.
- FOR SECTION DETAILS REFER SHEET NO : 3 OF 12 TO 7 OF 12.
- CHECK THE STATUS OF THE DRAWING BEFORE STARTING FABRICATION.

14. CHECK THE STATUS OF THE DRAWING BEFORE STARTING FABRICATION.



STATUS	SIGN	DATE	DO NOT SCALE THE DRAWING ASK IF IN DOUBT	DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)
DISCUSSION / REVIEW			UNLESS OTHERWISE SHOWN	DIAIMETERS & LENGTHS UPTO & INCL 6 ±0.1
TENDER PURPOSE	<i>(Signature)</i>	<i>9/10/23</i>	REMOVE SHARP EDGES & BURRS	6 - 30 ±0.2
FABRICATION			CHAMFER 1 M.M. X 45°	30 - 120 ±0.5
UNRESTRICTED RESTRICTED CONFIDENTIAL			MACHINING FINISH IN MICRONS :-	100 - 315 ±0.5
THIS DRAWING IS THE PROPERTY OF SDSC-SHAR AND IS ISSUED FOR THE SPECIFIC WORK / PROJECT MENTIONED THEREIN. THIS IS NOT TO BE COPIED OR USED FOR OTHER WORKS / PROJECTS UNLESS EXPRESSLY PERMITTED BY SDSC-SHAR.			▽ 8 - 25 ▽▽ 1.6 - 8	1 - 6 ± 1°-0°
			▽▽ 0.025 - 1.6 ▽▽▽ < 0.025	6 - 30 ± 0°-3°
				2000 - 4000 ±2.0
				30-120 ± 0°-2°
				4000 & ABOVE ±3.0
				120-400 ± 0°-1°



TOTAL WEIGHT 245672 kg(Approx.)

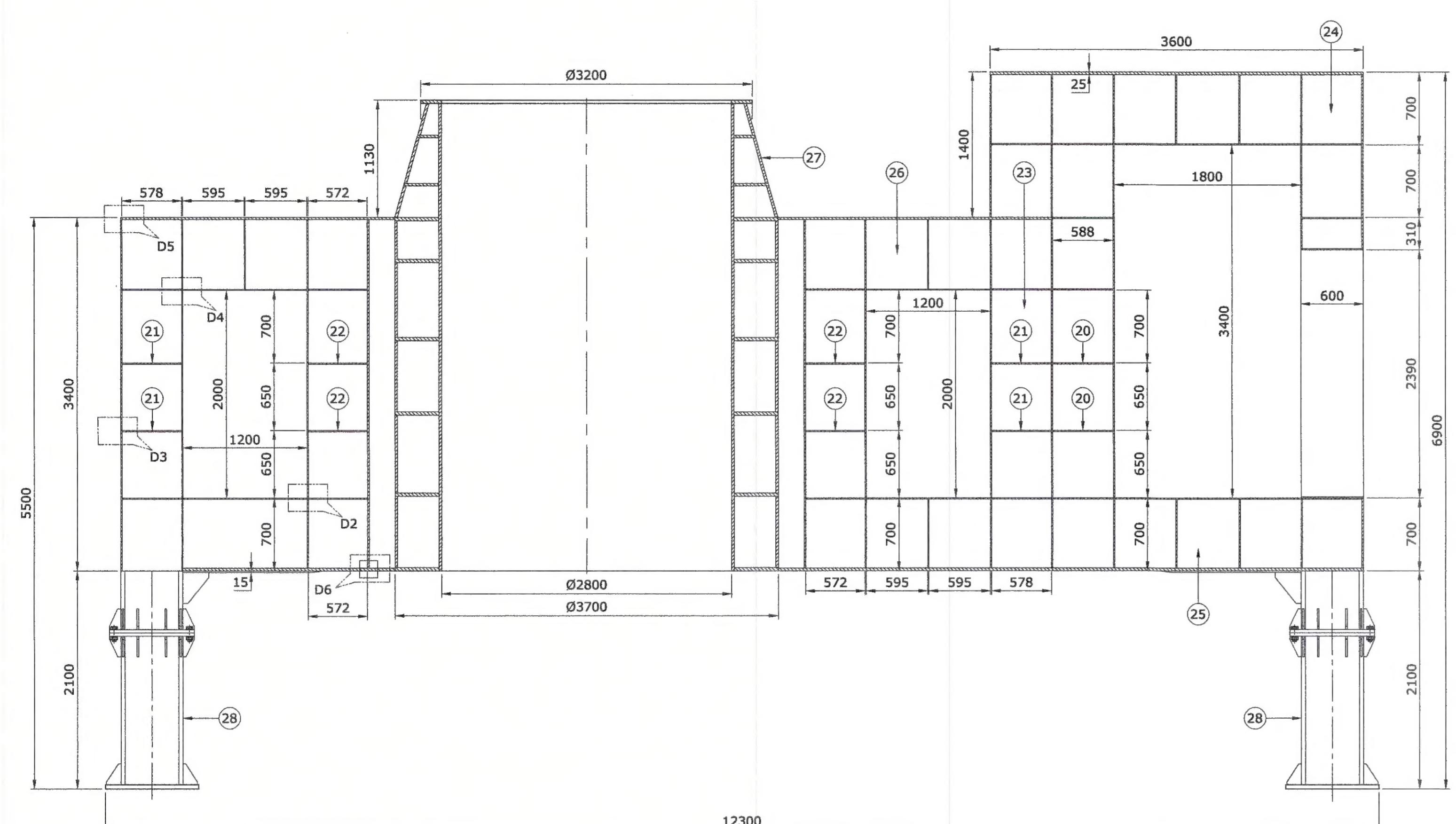
1	DETAILS OF MLP FOR MLS-1	-	1	245672	
S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
TITLE					
	ASSEMBLY OF MOBILE LAUNCH PEDESTAL (MLP) FOR MLS (SLC PROJECT)				
DESIGNED	<i>(Signature)</i>				
DES.CHRD	<i>(Signature)</i>				
DRAWN	<i>SCEND/09-10-23</i>				
DRG.CHRD	<i>(Signature)</i>				
APPROVED	<i>(Signature)</i>				
SCALE	1 : 25				
DRG. NO.	10-STR-12-1-23/A1				
OF	14				

GOVERNMENT OF INDIA
INDIAN SPACE RESEARCH ORGANISATION
SATISH DHAWAN SPACE CENTRE SHAR
SHRIHARIKOTA

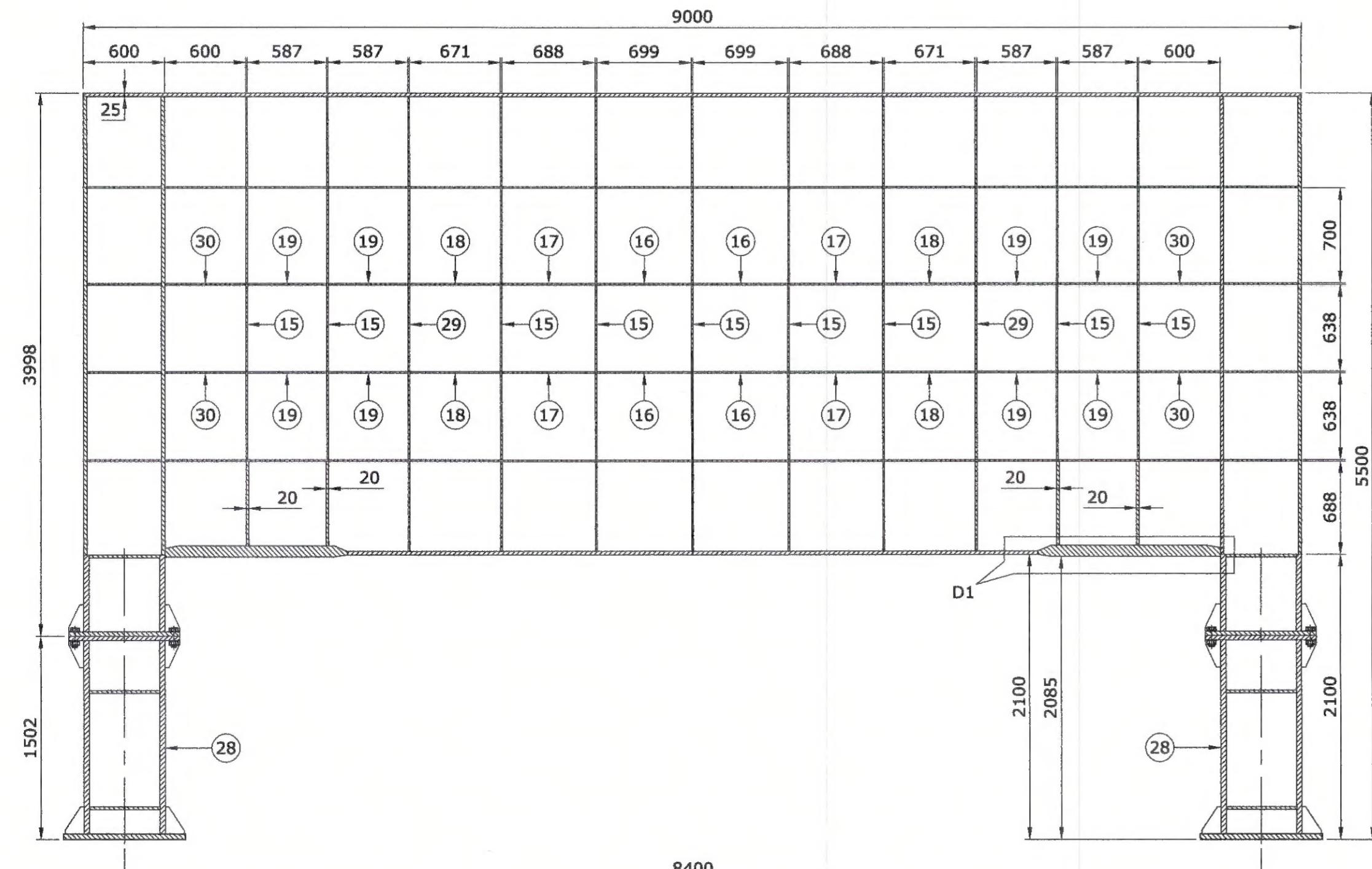
PROJECTION

A

SCEND/AG80/A1/2023/SREENU.P/KUMAR



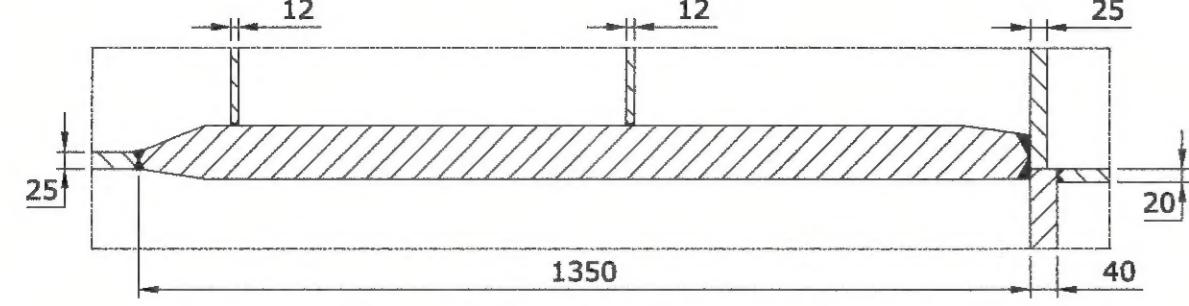
SECTION : S1-S1



SECTION : S4-S

NOTES:-

1. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.
2. ALL PLATES ABOVE 20mm THICK SHALL BE UT TESTED.
3. ALL WELDS ARE OF 10mm SIZE FILLET UNLESS OTHERWISE SPECIFIED.
4. ALL WELDS ARE TO BE DP TESTED FOR ROOT AND FINAL PASS.
5. ALL BUTT WELD JOINTS SHALL BE 100% R.T CHECKED.
6. FINAL MACHINING SHALL BE CARRIED OUT AFTER STRESS RELIEF.
7. CHECK THE STATUS OF THE DRAWING BEFORE STARTING FABRICATION.



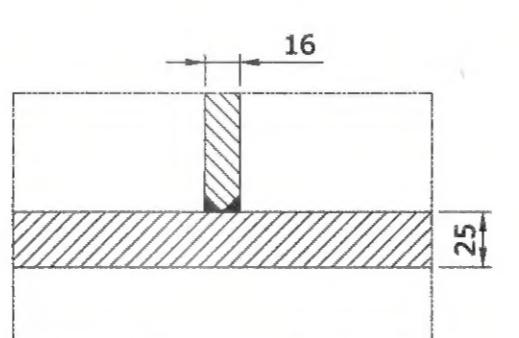
DETAIL :

STATUS	SIGN	DATE
DISCUSSION / REVIEW		
TENDER PURPOSE	<i>(Signed)</i>	9/10/
FABRICATION		
UNRESTRICTED	RESTRICTED	CONFIDENTIAL
THIS DRAWING IS THE PROPERTY OF SDSC-SHAR AND IS ISSUED FOR THE SPECIFIC WORK / PROJECT MENTIONED THEREIN. THIS IS NOT TO BE COPIED OR USED FOR OTHER WORKS / PROJECTS UNLESS EXPRESSLY PERMITTED BY SDSC-SHAR.		

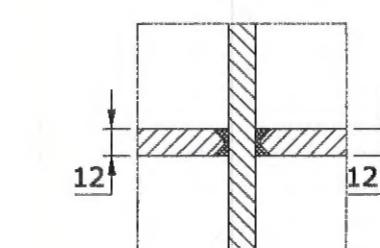
DO NOT SCALE THE DRAWING
ASK IF IN DOUBT
UNLESS OTHERWISE SHOWN
ALL DIMENSIONS ARE IN MILLIMETER
REMOVE SHARP EDGES & BURRS
CHAMFER 1 M.M. X 45°
MACHINING FINISH IN MICRONS :-

This technical diagram illustrates a cross-section of a bridge pier. The vertical height of the pier is indicated as 1211. The internal structure features a central vertical column with horizontal cross-ties. On the left side, there are two sets of circular components labeled 11 and 14, with arrows indicating their movement. On the right side, there are multiple sets of circular components labeled 13, also with arrows indicating their movement. Horizontal dimensions at the base are marked as 3600, 600, 588, and 600. Vertical dimensions on the right side are marked as 600, 594, 606, 600, 683, 700, 700, 711, 700, 684, 600, 600, 683, 700, 700, 711, 700, and 600.

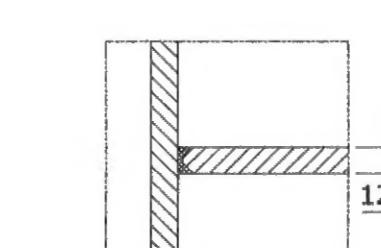
SECTION : S3-S3



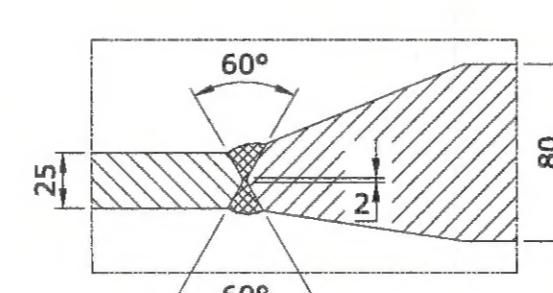
DETAIL : D6



DETALL : D2



Page 15



BUTT WELD

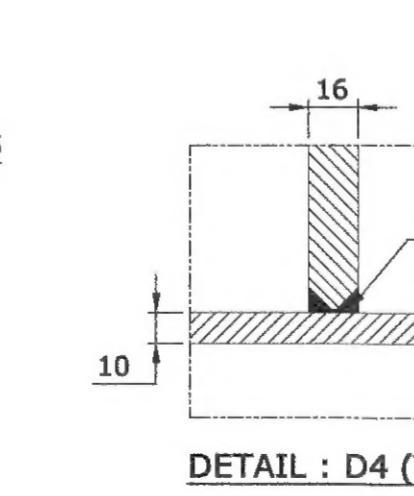
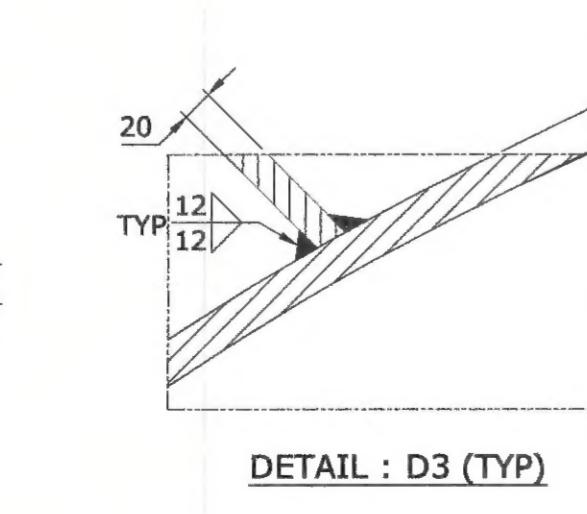
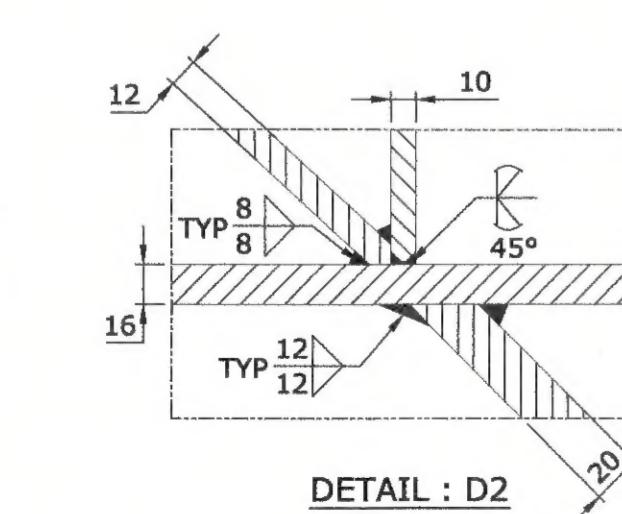
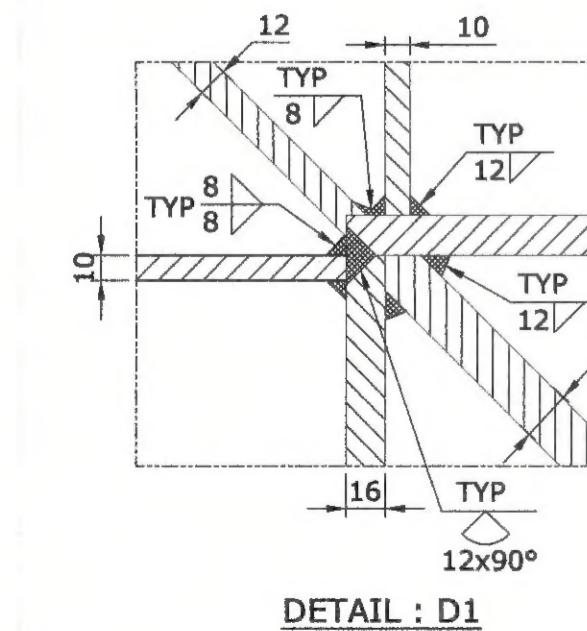
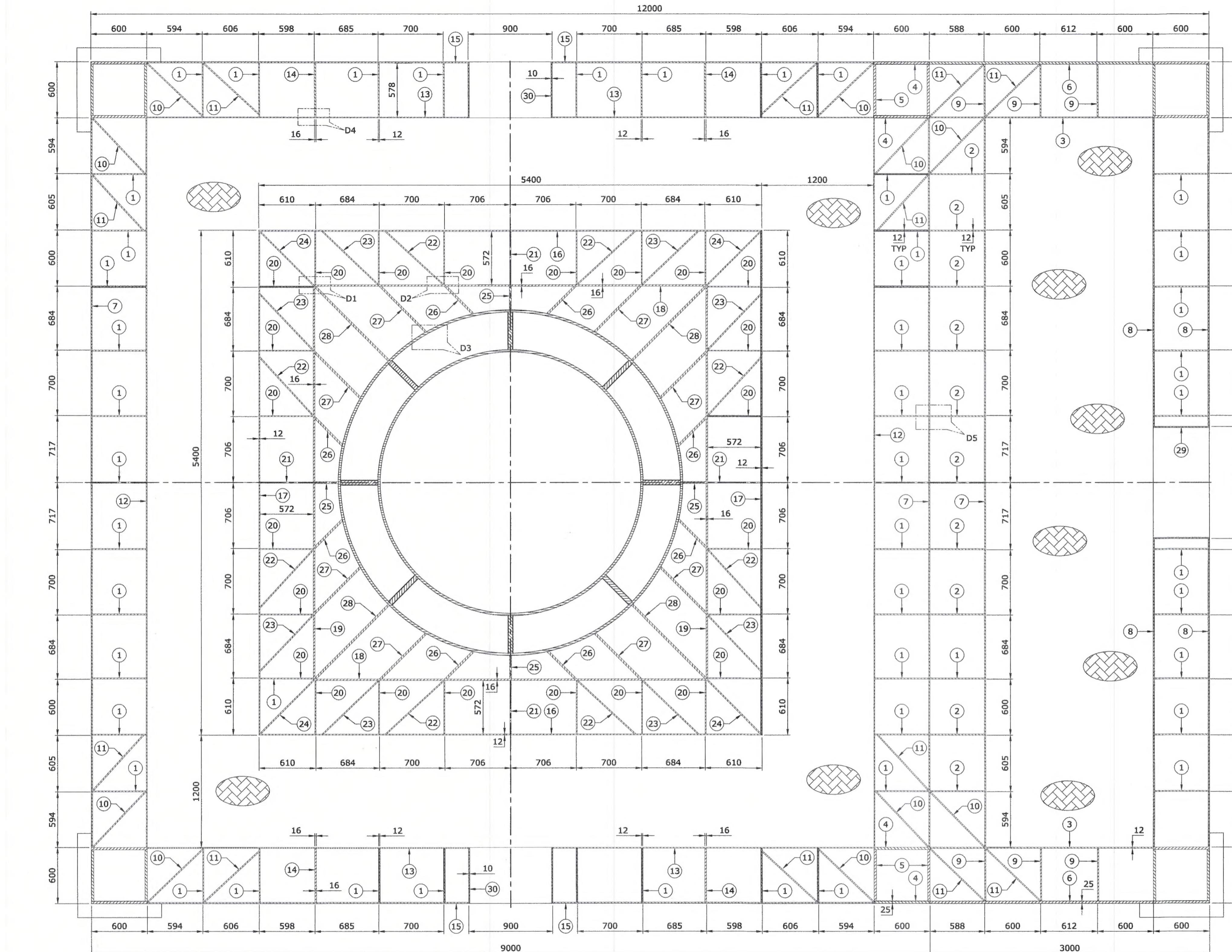
TOTAL WEIGHT 245672 kg(Approx.)					
30	PLATE 600 x 578 x 12Thk	IS : 2062 E250 Gr : B	4	131	
29	PLATE 2000 x 578 x 14Thk	IS : 2062 E250 Gr : B	2	254	
28	DETAILS OF MLP LEG	-	1	15933	REFER SHEET NO : 9 OF 14
27	CENTRAL ANNULAR STRUCTURE	-	1	30960	REFER SHEET NO : 8 OF 14
26	DETAILS OF TOP DECK	-	1	55239	REFER SHEET NO : 7 OF 14
25	DETAILS OF BOTTOM DECK	-	1	64172	REFER SHEET NO : 6 OF 14
24	SECTIONAL DETAILS OF S5-S5 & S6-S6 OF MLP	-	1	15043	REFER SHEET NO : 5 OF 14
23	SECTIONAL DETAILS OF S8-S8 OF MLP	-	1	49272	REFER SHEET NO : 4 OF 14
22	PLATE 700 x 572 x 12Thk	IS : 2062 E250 Gr : B	48	1810	
21	PLATE 700 x 578 x 12Thk	IS : 2062 E250 Gr : B	48	1829	
	PLATE	IS : 2062			

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
19	PLATE 587 x 578 x 12Thk	IS : 2062 E250 Gr : B	8	256	
18	PLATE 671 x 578 x 12Thk	IS : 2062 E250 Gr : B	4	146	
17	PLATE 688 x 578 x 12Thk	IS : 2062 E250 Gr : B	4	150	
16	PLATE 700 x 578 x 12Thk	IS : 2062 E250 Gr : B	4	152	
15	PLATE 2000 x 578 x 12Thk	IS : 2062 E250 Gr : B	9	980	
14	PLATE 700 x 563 x 12Thk	IS : 2062 E250 Gr : B	8	297	
13	PLATE 700 x 576 x 12Thk	IS : 2062 E250 Gr : B	22	836	
12	PLATE 700 x 588 x 12Thk	IS : 2062 E250 Gr : B	11	426	
11	PLATE 2988 x 700 x 12Thk	IS : 2062 E250 Gr : B	2	394	
10	PLATE 7800 x 700 x 12Thk	IS : 2062 E250 Gr : B	2	1029	
9	PLATE 2988 x 650 x 12Thk	IS : 2062 E250 Gr : B	2	366	
8	PLATE 564 x 650 x 12Thk	IS : 2062 E250 Gr : B	8	276	
7	PLATE 594 x 650 x 12Thk	IS : 2062 E250 Gr : B	20	727	
6	PLATE 588 x 650 x 16Thk	IS : 2062 E250 Gr : B	10	480	
5	PLATE 672 x 650 x 16Thk	IS : 2062 E250 Gr : B	10	549	
4	PLATE 688 x 650 x 12Thk	IS : 2062 E250 Gr : B	10	421	
3	PLATE 700 x 650 x 12Thk	IS : 2062 E250 Gr : B	10	429	
2	PLATE 7800 x 1380 x 12Thk	IS : 2062 E250 Gr : B	1	1014	
1	PLATE 9000 x 1380 x 12Thk	IS : 2062 E250 Gr : B	1	1170	

SECTIONAL VIEW OF PEDESTAL DECK (SLC PROJECT)

**GOVERNMENT OF INDIA
IN SPACE RESEARCH ORGANISATION
SH DHAWAN SPACE CENTRE SHAR
SRIHARIKOTA**

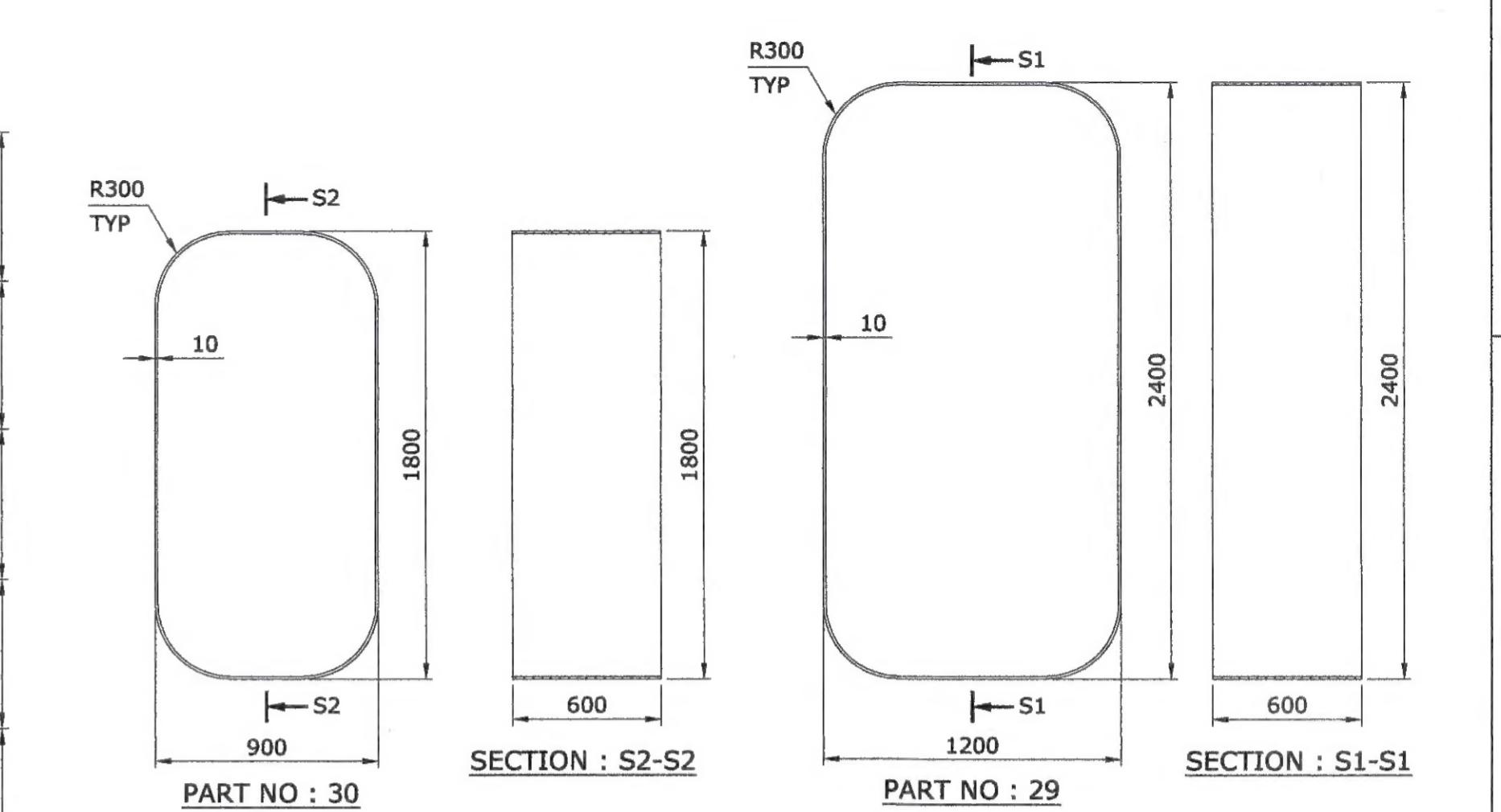
PROJECTION
A
SHEET 3
OF 14



NOTES:-

- ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.
- ALL PLATES ABOVE 20mm THICK SHALL BE UT TESTED.
- ALL WELDS ARE OF 10mm SIZE FILLET UNLESS OTHERWISE SPECIFIED.
- ALL WELDS ARE TO BE DP TESTED FOR ROOT AND FINAL PASSES TO ENSURE WELD QUALITY.
- ALL BUTT WELD JOINTS SHALL BE 100% R.T CHECKED.
- FINAL MACHINING SHALL BE CARRIED OUT AFTER STRESS RELIEVING.
- CHECK THE STATUS OF THE DRAWING BEFORE STARTING FABRICATION.

STATUS			SIGN	DATE	DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)	
DISCUSSION / REVIEW			DO NOT SCALE THE DRAWING ASK IF IN DOUBT		DIAMETERS & LENGTHS UPTO & INCL 6 ±0.1	
TENDER PURPOSE			UNLESS OTHERWISE SHOWN ALL DIMENSIONS ARE IN MILLIMETERS		LENGTH IN M.M. OF SHORTER SIDE OF ANGLE UPTO & INCL	
FABRICATION			REMOVE SHARP EDGES & BURRS		6 ± 30 ± 0.2	
UNRESTRICTED RESTRICTED CONFIDENTIAL			CHAMFER 1 M.M. X 45°		1 - 6 ± 1 - 0.0	
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			▽ 8 - 25 ▽▽ 1.6 - 8		315 - 1000 ± 0.8	
			▽▽ 0.025 - 1.6 ▽▽▽ < 0.025		1000 - 2000 ± 1.2	
			▽▽▽ 4000 & ABOVE ± 3.0		2000 - 4000 ± 2.0	
			▽▽▽ 120 - 400 ± 0 - 10		30 - 120 ± 0 - 20	



TOTAL WEIGHT 49272 kg(Approx.)

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
30	PLATE 4885 x 600 x 10Thk	IS : 2062 E250 Gr : B	2	460	
29	PLATE 6685 x 600 x 10Thk	IS : 2062 E250 Gr : B	1	315	
28	PLATE 2000 x 1110 x 20Thk	IS : 2062 E250 Gr : B	4	1394	
27	PLATE 2000 x 697 x 20Thk	IS : 2062 E250 Gr : B	8	1751	
26	PLATE 2000 x 420 x 20Thk	IS : 2062 E250 Gr : B	8	1055	
25	PLATE 2000 x 250 x 20Thk	IS : 2062 E250 Gr : B	4	314	
24	PLATE 2000 x 810 x 12Thk	IS : 2062 E250 Gr : B	4	610	
23	PLATE 2000 x 830 x 12Thk	IS : 2062 E250 Gr : B	8	1251	
22	PLATE 2000 x 845 x 12Thk	IS : 2062 E250 Gr : B	8	1274	
21	PLATE 2000 x 572 x 12Thk	IS : 2062 E250 Gr : B	4	431	
20	PLATE 2000 x 572 x 10Thk	IS : 2062 E250 Gr : B	24	2155	
19	PLATE 2000 x 4200 x 16Thk	IS : 2062 E250 Gr : B	2	2110	
18	PLATE 2000 x 4232 x 16Thk	IS : 2062 E250 Gr : B	2	2126	
17	PLATE 2000 x 5376 x 12Thk	IS : 2062 E250 Gr : B	2	2026	
16	PLATE 2000 x 5400 x 12Thk	IS : 2062 E250 Gr : B	2	2035	
15	PLATE 2000 x 3450 x 12Thk	IS : 2062 E250 Gr : B	4	2600	
14	PLATE 2000 x 578 x 16Thk	IS : 2062 E250 Gr : B	4	581	
13	PLATE 2000 x 3450 x 10Thk	IS : 2062 E250 Gr : B	4	2167	
12	PLATE 2000 x 7800 x 10Thk	IS : 2062 E250 Gr : B	2	2449	
11	PLATE 2000 x 808 x 12Thk	IS : 2062 E250 Gr : B	12	1827	
10	PLATE 2000 x 824 x 12Thk	IS : 2062 E250 Gr : B	10	1552	
9	PLATE 2000 x 563 x 12Thk	IS : 2062 E250 Gr : B	6	636	
8	PLATE 3300 x 2000 x 12Thk	IS : 2062 E250 Gr : B	4	2487	
7	PLATE 7800 x 2000 x 12Thk	IS : 2062 E250 Gr : B	3	4409	
6	PLATE 2000 x 2400 x 25Thk	IS : 2062 E250 Gr : B	2	1884	
5	PLATE 2000 x 550 x 25Thk	IS : 2062 E250 Gr : B	4	864	
4	PLATE 2000 x 600 x 25Thk	IS : 2062 E250 Gr : B	4	942	
3	PLATE 2000 x 2400 x 12Thk	IS : 2062 E250 Gr : B	2	904	
2	PLATE 2000 x 588 x 12Thk	IS : 2062 E250 Gr : B	11	1219	
1	PLATE 2000 x 578 x 12Thk	IS : 2062 E250 Gr : B	50	5445	

SECTIONAL DETAILS OF S8-S8 OF MLP (SLC PROJECT)					
TITLE		DESIGNED		APPROVED	
GOVERNMENT OF INDIA		SDSC-SHAR CENTRAL DESIGNS		SDSC-SHAR CENTRAL DESIGNS	
INDIAN SPACE RESEARCH ORGANISATION					
SATISH DHAWAN SPACE CENTRE SHAR					
SRIRAKOTA					
PROJECTION					
A					
SCALE 1 : 25		DRG. NO. 10-STR-12-1-23/A1			
OF 14					